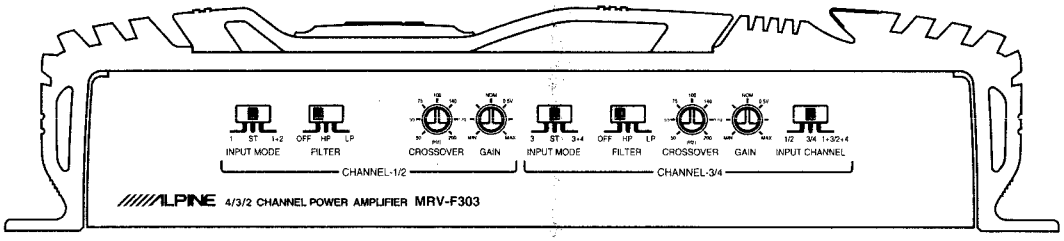
ALPINE®

SERVICE MANUAL

4/3/2 Channel Power Amplifier



サービス費用区分	B
技術資料No.	PM-75-D

MRV-F303

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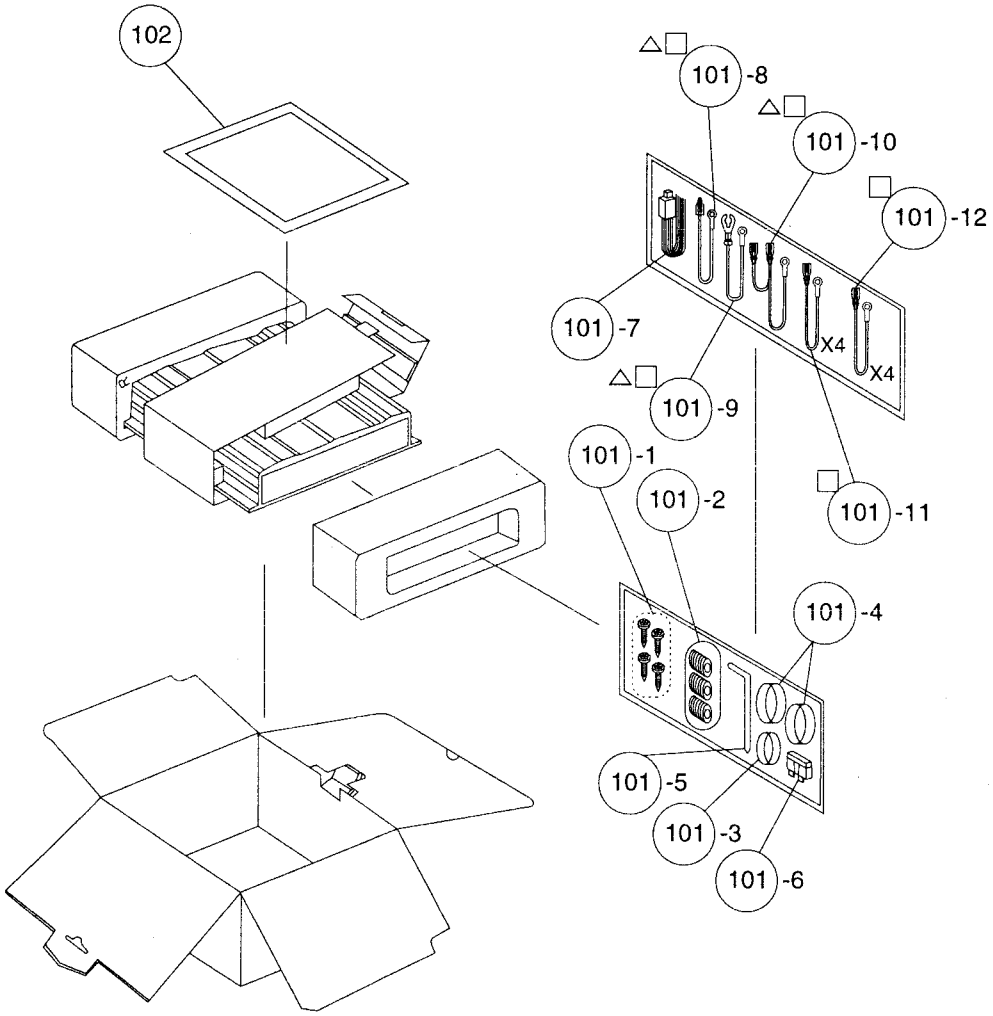
Packing Assembly Parts List

Symbol No.	Part No.	Description
	101-1	03E11447S01 Screw, TPG (M4X14)
	101-2	03E29353S01 Screw (M4X10)
	101-3	75E29296S01 Housing Rubber-A
	101-4	75E22440S01 Housing Rubber-C
	101-5	01E28659S01 Wrench
	101-6	65E25308S01 Fuse, Auto 30A (For Battery Line)
	101-7	01E29389S01 Assy., Kit SP-IN Wire
△	101-8	01E29399S01 Assy., Battery Wire
□	101-8	01E29399S01 Assy., Battery Wire
△	101-9	01E29400S01 Assy., GND Wire

Symbol No.	Part No.	Description
□	101-9	01E29400S01 Assy., GND Wire
△	101-10	01E29401S01 Assy., Remote Wire
□	101-10	01E29401S01 Assy., Remote Wire
□	101-11	01E22152S01 Assy., Speaker Wire (+)
□	101-12	01E22153S01 Assy., Speaker Wire (-)
○	102	68P20877Y03 Owner's Manual
△	102-1	68P11199Y88 Owner's Manual (ENGLISH/FRANCAIS/ESPANOL)
△	102-2	68P11199Y89 Owner's Manual (DEUTSCH/ITALIANO/SVENSKA)
□	102	68P20877Y02 Owner's Manual

NOTE : ○ : For North American Model Only, △ : For General Foreign Model Only,
□ : For Japanese Model Only, Others : Common.

Packing Method View



NOTE : ○ : For North American Model Only, △ : For General Foreign Model Only,
□ : For Japanese Model Only, Others : Common.

Specifications

T.H.D. (Stereo, 20Hz/1kHz/20kHz)	50W/ch, 4ohm-4channel, 14.4V, L.P.F.-80kHz : 0.2%
	30W/ch, 4ohm-4channel, 12V, L.P.F.-80kHz : 0.2%
	65W/ch, 2ohm-4channel, 14.4V, L.P.F.-80kHz : 0.8%
	40W/ch, 2ohm-4channel, 12V, L.P.F.-80kHz : 0.8%
(BTL, INPUT MODE MONO, 20Hz/1kHz/20kHz)	130W/ch, 4ohm-2channel, 14.4V, L.P.F.-80kHz : 0.8%
	80W/ch, 4ohm-2channel, 12V, L.P.F.-80kHz : 0.8%
Power Output (Stereo, 20Hz/1kHz/20kHz)	4ohm-4channel, 0.2% T.H.D., 14.4V, L.P.F.-80kHz : 40W
	4ohm-4channel, 0.2% T.H.D., 12V, L.P.F.-80kHz : 25W
	2ohm-4channel, 0.3% T.H.D., 14.4V, L.P.F.-80kHz : 50W
	2ohm-4channel, 0.3% T.H.D., 12V, L.P.F.-80kHz : 35W
(BTL, INPUT MODE MONO, 20Hz/1kHz/20kHz)	4ohm-2channel, 0.3% T.H.D., 14.4V, L.P.F.-80kHz : 100W
	4ohm-2channel, 0.3% T.H.D., 12V, L.P.F.-80kHz : 70W
S/N Ratio (Ref. Output 50W/4ohm, Input shorted)	95dB
Input Sensitivity (50W Output)	GAIN-VR (NORM) : RCA : 1V±3dB
	SP : 2V±3dB
	GAIN-VR (MAX) : RCA : 0.2V+5, -3dB
	SP : 0.4V+5, -3dB
	GAIN-VR (MIN) : RCA : 4V+5, -3dB
	SP : 8V+5, -3dB
(PREOUT Level, 1V Output)	1V+1, -3dB
Input Impedance	RCA : 11kohm±10%
	SP : 15ohm±10%
Frequency Response (0±1dB, Ref. 1kHz)	20Hz~50kHz
Current Drain	No Signal : 1.5A
	4ohm-4channel, 10% T.H.D. : 35A
	2ohm-4channel, 10% T.H.D. : 55A
	4ohm-2channel, BTL 150W : 50A
Residual Noise (Input Shorted, 4ohm-2channel)	VR Center, MIN : 3mV
	VR MAX. : 10mV
Channel Separation (Input Shorted, 1kHz, 50W×4channel)	55dB
Remote on Voltage (1W Output)	6.5 +1, -1.5V
Remote Current Drain	1.3±0.5mA
Back Up Current Drain	1.2mA
Fuse Requirement	30A (For Battery Line)
Power Source	DC14.4V (11~16V)
Dimensions (W×H×D)	270×60×260mm
Weight	4.2kg

NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.

Adjustment Procedures

1. Power Supply Voltage Adjustment

電源電圧調整

(1) Connection

接続

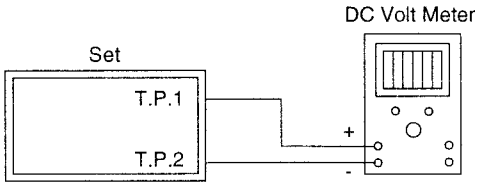


Figure 1
1図

BATTERY : DC14.4V
REMOTE : DC6.5+1, -1.5V
No Signal Input

(2) Adjustment Procedures

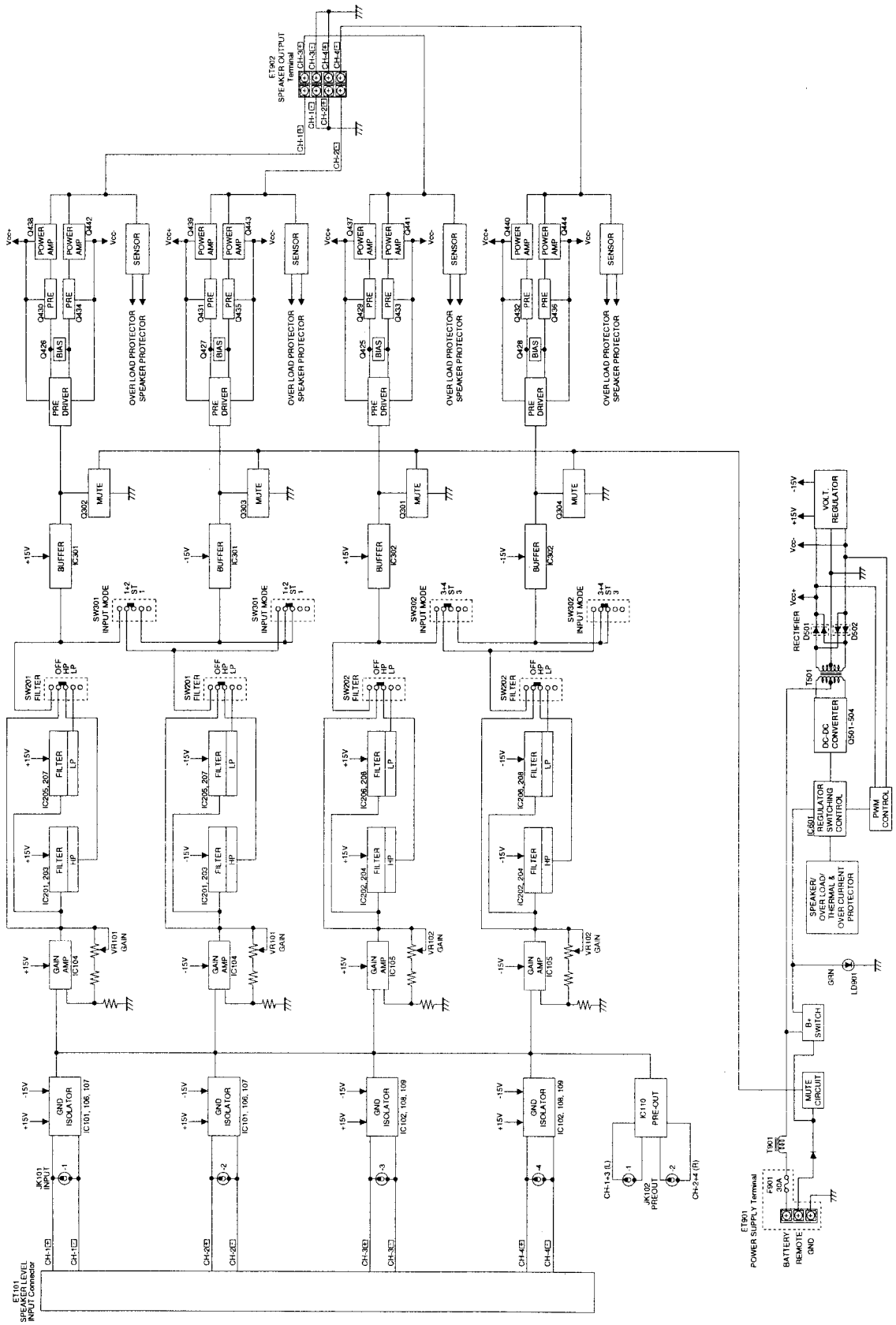
調整方法

Adjust VR601 so that Voltage between T.P.1 and T.P.2 reaches 53±1V.
T.P.1とT.P.2との間の電圧が53±1Vになる様にVR601で調整する。

NOTE : For the Adjustment Parts and Test Points, refer to the Parts Layout on P.W. Boards and Wiring Diagram.

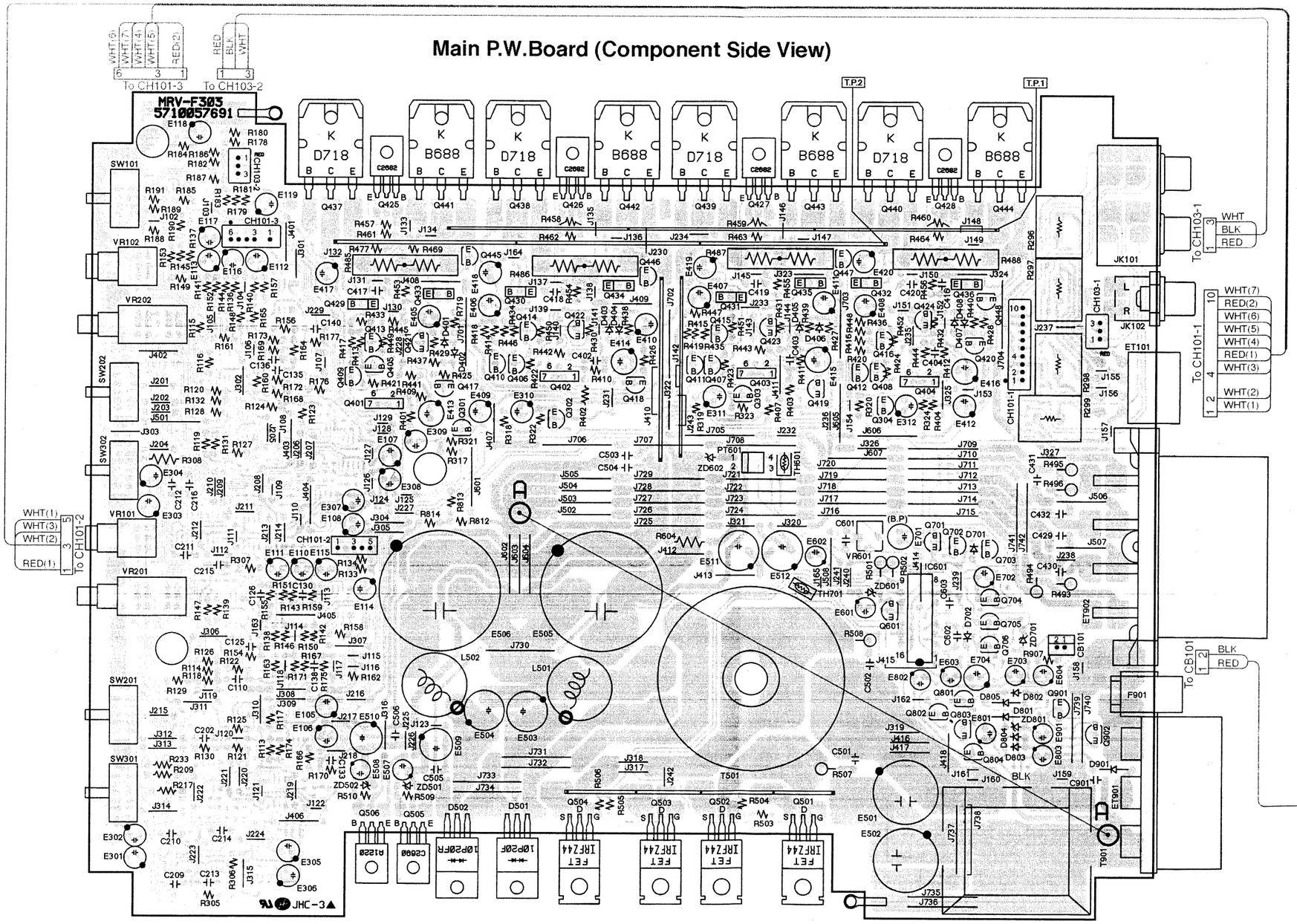
注記 : 調整部品及びテストポイントの詳細については、「Parts Layout on P.W. Boards and Wiring Diagram」を参照願います。

Block Diagram

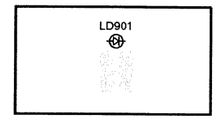


Parts Layout on P.W. Boards and Wiring Diagram (1/2)

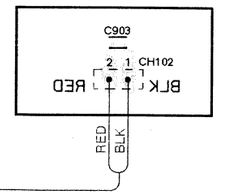
Main P.W.Board (Component Side View)



LED P.W.Board (Component Side View)



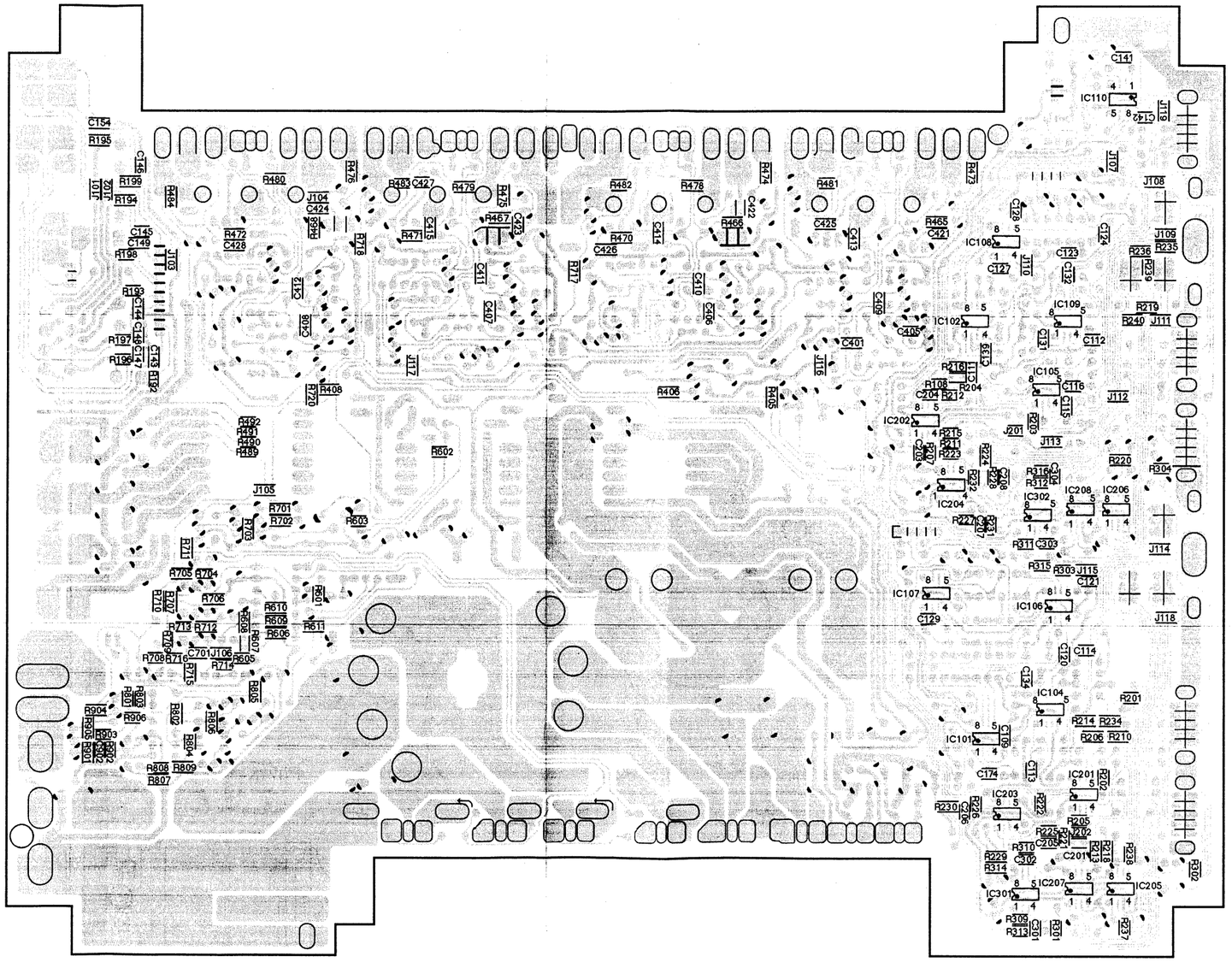
LED P.W.Board (Foil Side View)



Blue Color Pattern : Foil Side Pattern

Parts Layout on P.W. Boards and Wiring Diagram (2/2)

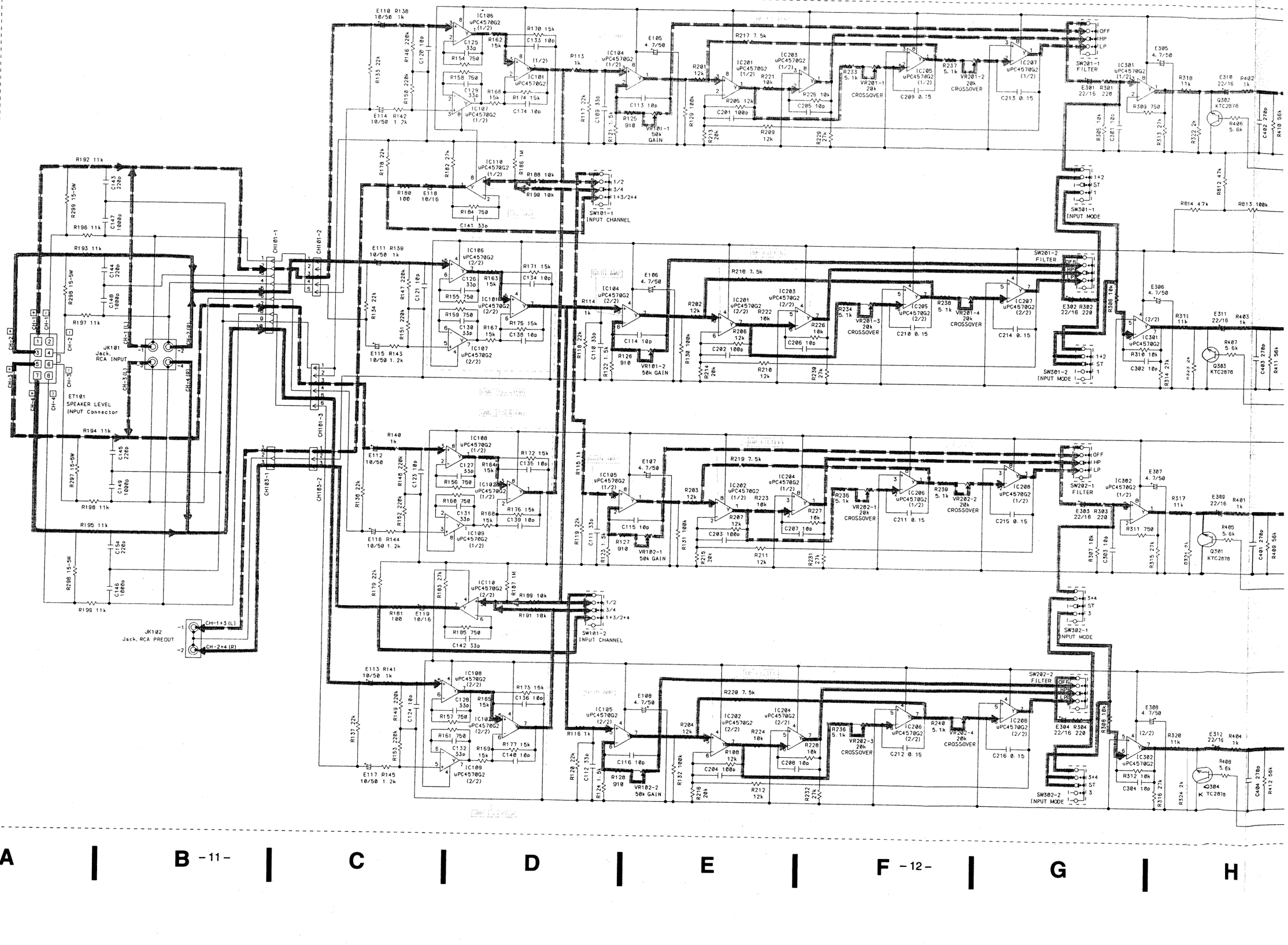
Main P.W.Board (Foil Side View)

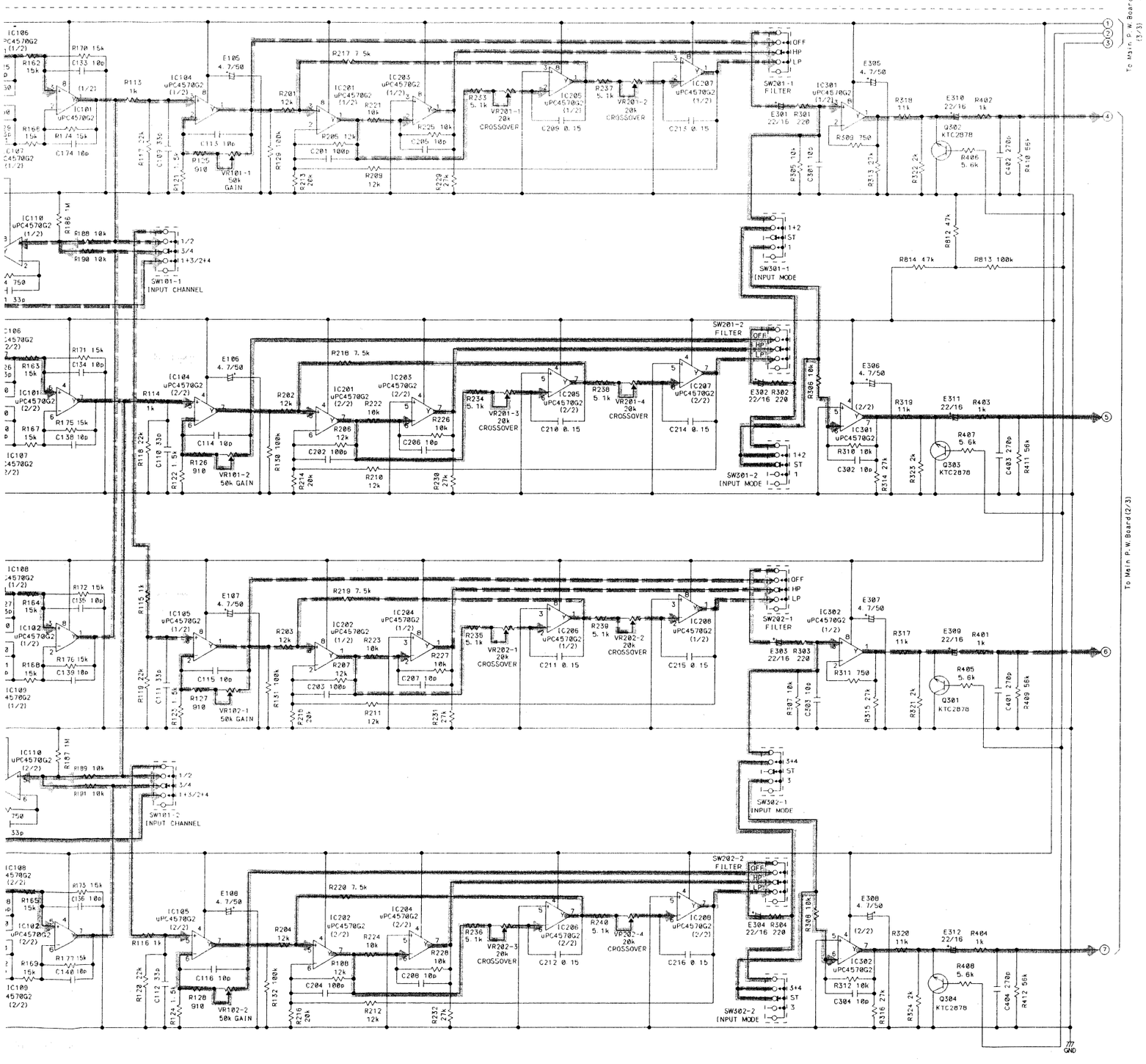


Blue Color Pattern : Foil Side Pattern

Schematic Diagram (1/3)

Main P.W.Board(1/3)





IC101

1–3	0V
4	-14.96V
5–7	0V
8	15.08V

IC102

1–3	0V
4	-14.83V
5–7	0V
8	15.01V

IC104

1–3	0V
4	-14.83V
5–7	0V
8	15.02V

IC105

1–3	0V
4	-14.95V
5–7	0V
8	15.08V

IC106

1–3	0V
4	-15.01V
5–7	0V
8	15.15V

IC107

1–3	0V
4	-15.06V
5–7	0V
8	15.18V

IC108

1–3	0V
4	-15.08V
5–7	0V
8	15.19V

IC109

1–3	0V
4	-15.09V
5–7	0V
8	15.2V

IC110

1–3	0V
4	-15.08V
5–7	0V
8	15.18V

IC201

1–3	0V
4	-14.81V
5–7	0V
8	14.98V

IC202

1–3	0V
4	-14.91V
5–7	0V
8	15.05V

IC203

1–3	0V
4	-14.93V
5–7	0V
8	15.07V

IC204

1–3	0V
4	-14.99V
5–7	0V
8	15.11V

IC205

1–3	0V
4	-15.01V
5–7	0V
8	15.13V

IC206

1–3	0V
4	-15.02V
5–7	0V
8	15.14V

IC207

1–3	0V
4	-15.04V
5–7	0V
8	15.15V

IC208

1–3	0V
4	-15.06V
5–7	0V
8	15.15V

IC301

1–3	0V
4	-15.07V
5–7	0V
8	15.18V

IC302

1–3	0V
4	-15.07V
5–7	0V
8	15.1V

	E	C	B
Q301	0V	0V	-7.39V
Q302	0V	0V	-7.49V
Q303	0V	0V	-7.49V
Q304	0V	0V	-7.49V

[Measuring Conditions]

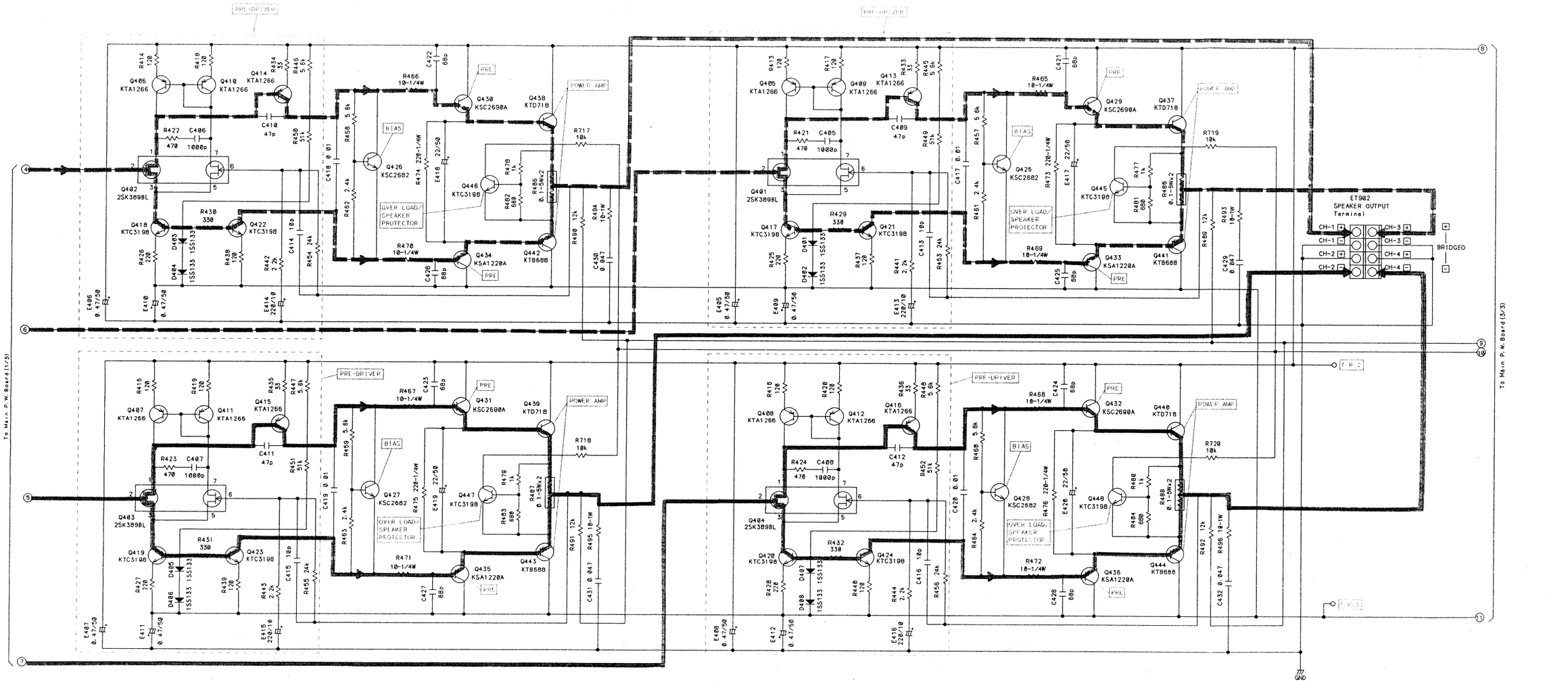
- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Conditions : No Signal Input

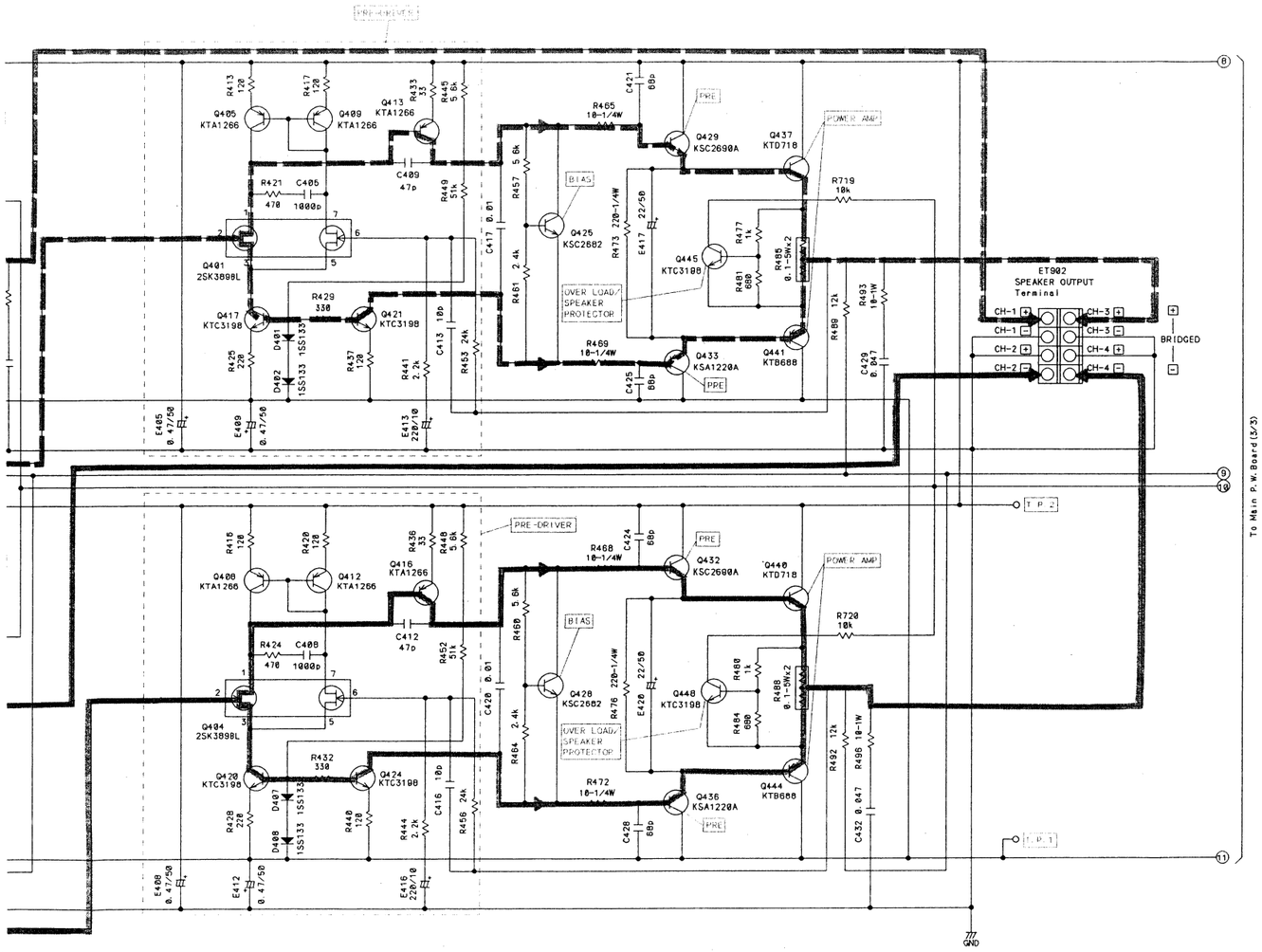
NOTE:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1,000,000}$

Schematic Diagram (2/3)

Main P.W.Board(2/3)





	E	C	B		E	C	B		E	C	B
Q405	26.8V	26.18V	26.17V	Q420	-26.55V	0.29V	-26.93V	Q435	-0.55V	-26.97V	-1.111V
Q406	26.84V	26.23V	26.23V	Q421	-26.37V	-1.114V	-25.8V	Q436	-0.53V	-26.97V	-1.112V
Q407	26.8V	26.2V	26.2V	Q422	-25.56V	-1.01V	-25.94V	Q437	0V	26.99V	0.528V
Q408	26.79V	26.3V	26.3V	Q423	-26.37V	-1.12V	-25.8V	Q438	0V	26.07V	0.55V
Q409	26.67V	26.07V	26.1V	Q424	-26.37V	-1.01V	-25.94V	Q439	0V	26.09V	0.568V
Q410	26.73V	26.12V	26.15V	Q425	-1.12V	1.093V	-0.475V	Q440	0V	27.11V	0.544V
Q411	26.7V	26.11V	26.14V	Q426	-1.101V	1.109V	-0.471V	Q441	0V	-27.04V	-0.56V
Q412	26.69V	29.09V	26.15V	Q427	-1.1V	1.115V	-0.481V	Q442	0V	-27.08V	-0.53V
Q413	26.76V	1.1V	26.18V	Q428	-1.09V	1.09V	-0.46V	Q443	0V	-27.1V	-0.551V
Q414	26.89V	1.12V	26.28V	Q429	0.522V	26.93V	1.099V	Q444	0V	-27.11V	-0.535V
Q415	26.9V	1.1V	26.18V	Q430	0.553V	27.06V	1.01V	Q445	0V	26.98V	0V
Q416	26.88V	1.11V	26.19V	Q431	0.524V	27.07V	1.01V	Q446	0V	27.06V	0V
Q417	-26.53V	0.29V	-25.92V	Q432	0.55V	27.06V	1.01V	Q447	0V	27.03V	0V
Q418	-26.57V	0.27V	-25.95V	Q433	-0.53V	-26.96V	-1.114V	Q448	0V	26.99V	0V
Q419	-26.55V	0.28V	-26.92V	Q434	-0.54V	-27.06V	-1.102V				

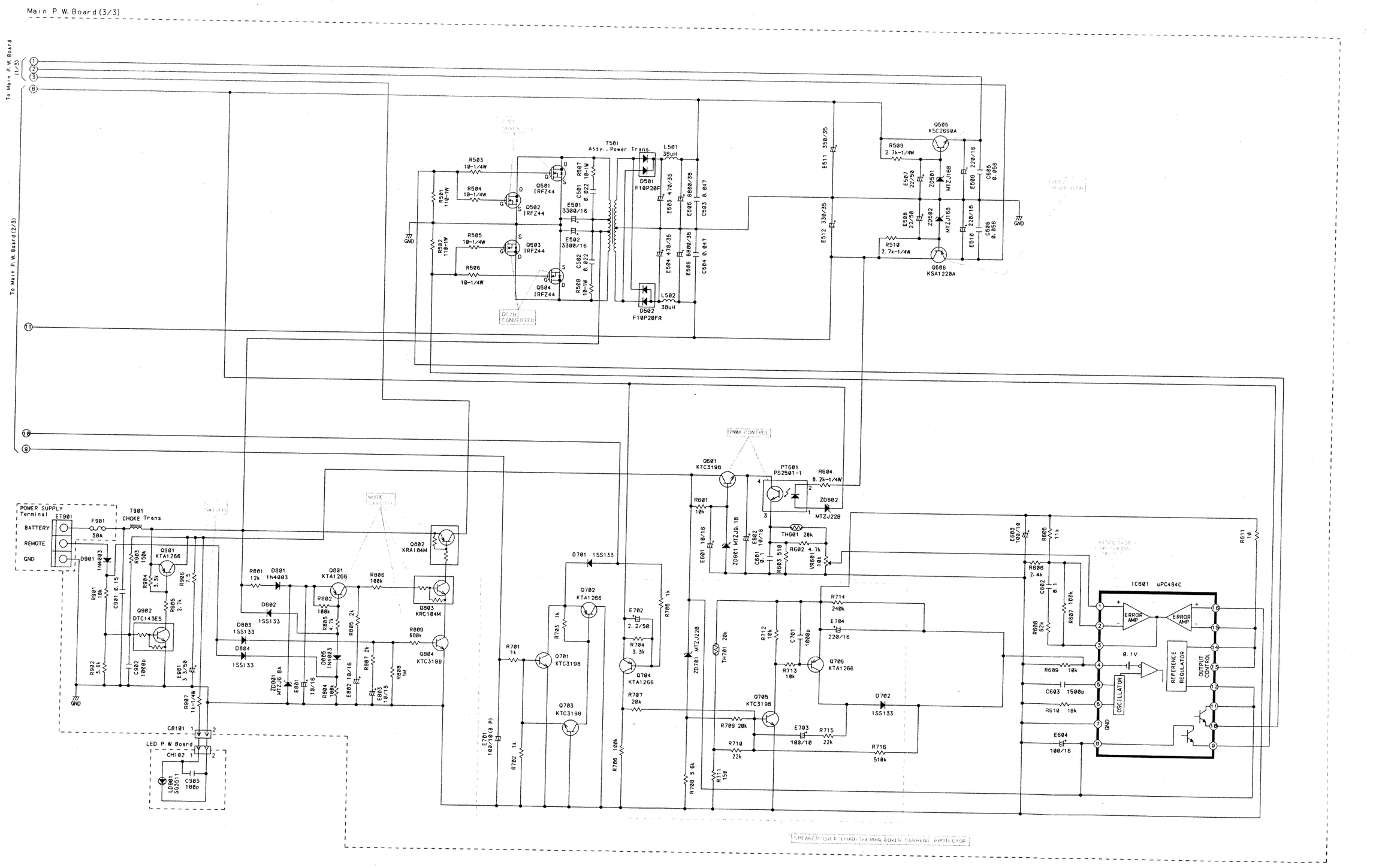
	1	2	3	4	5	6	7
Q401	8.77V	0V	0.33V	NC	0.35V	0V	8.64V
Q402	8.69V	0V	0.34V	NC	0.37V	0V	8.7V
Q403	8.74V	0V	0.34V	NC	0.35V	0V	8.77V
Q404	8.6V	0V	0.34V	NC	0.36V	0V	8.45V

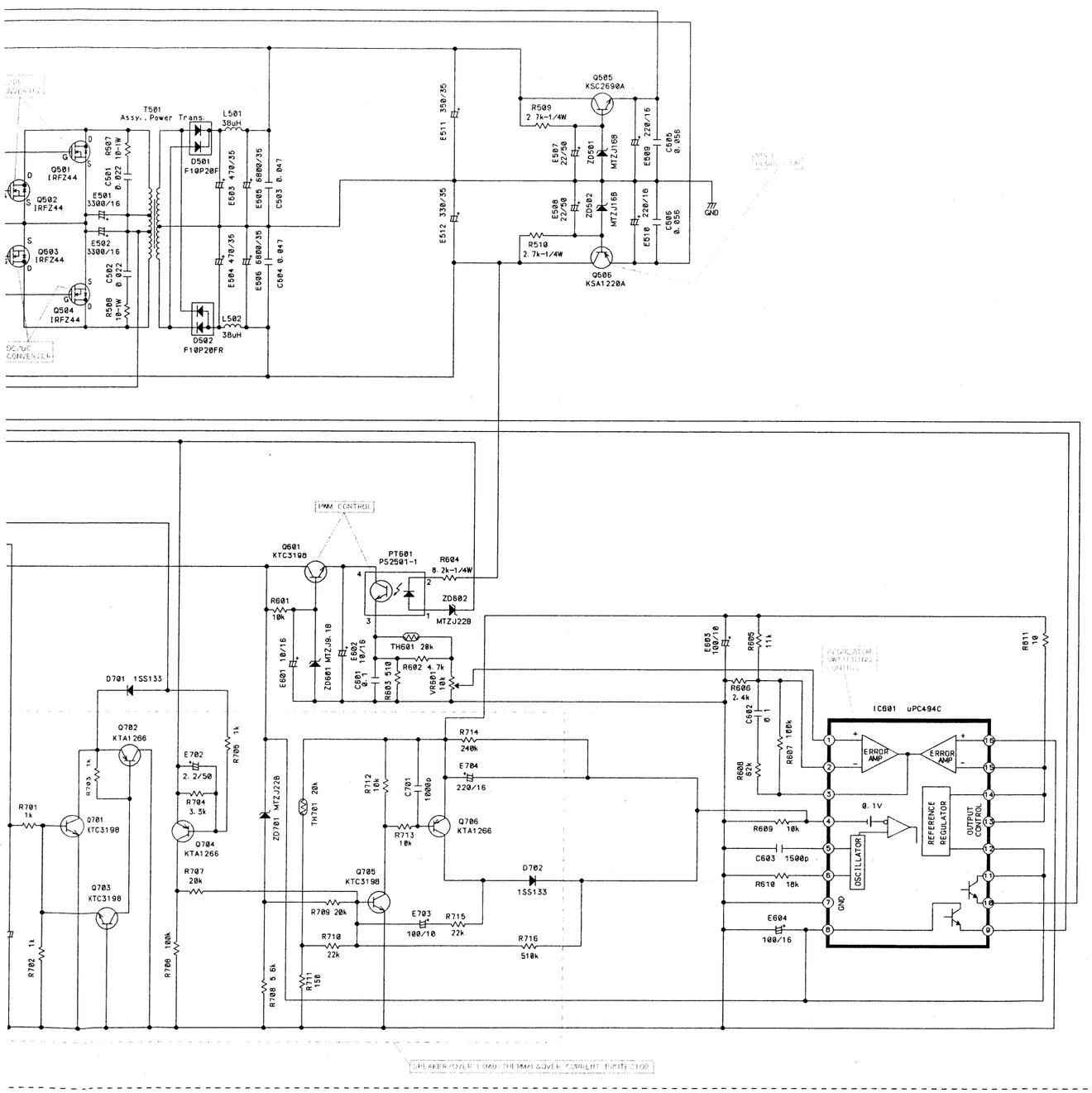
[Measuring Conditions]

- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Conditions : No Signal Input

NOTE:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1{,}000{,}000}$

Schematic Diagram (3/3)





IC601

1	0.956V	8	14.18V
2	0.952V	9	0.818V
3	3.758V	10	0.924V
4	0.214V	11, 12	14.28V
5	1.645V	13, 14	4.98V
6	3.691V	15	4.98V
7	0V	16	0V

	G	D	S
Q501	0.927V	14.44V	0V
Q502	0.938V	14.44V	0V
Q503	0.938V	14.44V	0V
Q504	0.943V	14.44V	0V

	E	C	B		E	C	B
Q505	14.99V	26.87V	15.71V	Q706	4.98V	0V	4.97V
Q506	-14.95V	-26.92V	-15.61V	Q801	6.49V	0V	6.43V
Q601	8.16V	14.3V	8.86V	Q802	14.4V	0V	14.17V
Q701	0V	26.64V	0V	Q803	0V	14.28V	0V
Q702	26.54V	0V	26.61V	Q804	0V	0V	0.573V
Q703	0V	26.54V	0V	Q901	14.39V	14.3V	13.57V
Q704	26.92V	0V	26.92V	Q902	0V	0V	2.658V
Q705	0V	4.97V	0V				

[Measuring Conditions]

- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Conditions : No Signal Input

NOTE:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1000,000}$

Electrical Parts List

Capacitor : μF=microfarads,pF=picofarads

Abbreviations

RES.= Resistor	CAP.= Capacitor
C.F.= Carbon Film	ELY.= Electrolytic
M.F.= Metal Film	CER.= Ceramic
M.O.= Metal Oxide Film	MYL.= Mylar
M.P.= Metal Plate	TAN.= Tantalum
TR. = Transistor	POLY.= Polystyrol
TRANS.= Transformer	PP. = Polypropylene
CP. = Chip	PLT.= Polyethylene
	PF. = Polyester Film

Symbol No.	Part No.	Description
Main P.W.Board		
IC's		
IC101	51E26130S01	IC, μPC 4570 G2-T1
IC102	51E26130S01	IC, μPC 4570 G2-T1
IC104	51E26130S01	IC, μPC 4570 G2-T1
IC105	51E26130S01	IC, μPC 4570 G2-T1
IC106	51E26130S01	IC, μPC 4570 G2-T1
IC107	51E26130S01	IC, μPC 4570 G2-T1
IC108	51E26130S01	IC, μPC 4570 G2-T1
IC109	51E26130S01	IC, μPC 4570 G2-T1
IC110	51E26130S01	IC, μPC 4570 G2-T1
IC201	51E26130S01	IC, μPC 4570 G2-T1
IC202	51E26130S01	IC, μPC 4570 G2-T1
IC203	51E26130S01	IC, μPC 4570 G2-T1
IC204	51E26130S01	IC, μPC 4570 G2-T1
IC205	51E26130S01	IC, μPC 4570 G2-T1
IC206	51E26130S01	IC, μPC 4570 G2-T1
IC207	51E26130S01	IC, μPC 4570 G2-T1
IC208	51E26130S01	IC, μPC 4570 G2-T1
IC301	51E26130S01	IC, μPC 4570 G2-T1
IC302	51E26130S01	IC, μPC 4570 G2-T1
IC601	51E26022S01	IC, μPC 494C
Transistors/FET's		
Q301	48E08335S01	TR,KTC 2878-B -RD
Q302	48E08335S01	TR,KTC 2878-B -RD
Q303	48E08335S01	TR,KTC 2878-B -RD
Q304	48E08335S01	TR,KTC 2878-B -RD
Q401	48T61719F01	FET,TKR 2SK 389BL
Q402	48T61719F01	FET,TKR 2SK 389BL
Q403	48T61719F01	FET,TKR 2SK 389BL
Q404	48T61719F01	FET,TKR 2SK 389BL
Q405	48E09036S02	TR,KTA 1266-Y -RD
Q406	48E09036S02	TR,KTA 1266-Y -RD
Q407	48E09036S02	TR,KTA 1266-Y -RD
Q408	48E09036S02	TR,KTA 1266-Y -RD
Q409	48E09036S02	TR,KTA 1266-Y -RD
Q410	48E09036S02	TR,KTA 1266-Y -RD
Q411	48E09036S02	TR,KTA 1266-Y -RD
Q412	48E09036S02	TR,KTA 1266-Y -RD
Q413	48E09036S02	TR,KTA 1266-Y -RD
Q414	48E09036S02	TR,KTA 1266-Y -RD
Q415	48E09036S02	TR,KTA 1266-Y -RD
Q416	48E09036S02	TR,KTA 1266-Y -RD
Q417	48E09088S01	TR,KTC 3198-Y -RD
Q418	48E09088S01	TR,KTC 3198-Y -RD
Q419	48E09088S01	TR,KTC 3198-Y -RD
Q420	48E09088S01	TR,KTC 3198-Y -RD
Q421	48E09088S01	TR,KTC 3198-Y -RD
Q422	48E09088S01	TR,KTC 3198-Y -RD
Q423	48E09088S01	TR,KTC 3198-Y -RD
Q424	48E09088S01	TR,KTC 3198-Y -RD
Q425	48E08329S01	TR,KSC 2682-Y
Q426	48E08329S01	TR,KSC 2682-Y
Q427	48E08329S01	TR,KSC 2682-Y
Q428	48E08329S01	TR,KSC 2682-Y
Q429	48E10027S01	TR,KSC 2690A-Y
Q430	48E10027S01	TR,KSC 2690A-Y
Q431	48E10027S01	TR,KSC 2690A-Y
Q432	48E10027S01	TR,KSC 2690A-Y
Q433	48E05943S01	TR,KSA 1220A-Y
Q434	48E05943S01	TR,KSA 1220A-Y
Q435	48E05943S01	TR,KSA 1220A-Y
Q436	48E05943S01	TR,KSA 1220A-Y
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Q438	48E27748S01	TR,KTD 718-O
Q439	48E27748S01	TR,KTD 718-O
Q440	48E27748S01	TR,KTD 718-O
Q441	48E27747S01	TR,KTB 688-O
Q442	48E27747S01	TR,KTB 688-O
Q443	48E27747S01	TR,KTB 688-O
Q444	48E27747S01	TR,KTB 688-O
Q445	48E09088S01	TR,KTC 3198-Y -RD
Q446	48E09088S01	TR,KTC 3198-Y -RD
Q447	48E09088S01	TR,KTC 3198-Y -RD
Q448	48E09088S01	TR,KTC 3198-Y -RD
Q501	48E25311S01	FET,IRFZ 44
Q502	48E25311S01	FET,IRFZ 44
Q503	48E25311S01	FET,IRFZ 44
Q504	48E25311S01	FET,IRFZ 44
Q505	48E10027S01	TR,KSC 2690A-Y
Q506	48E05943S01	TR,KSA 1220A-Y
Q601	48E09088S01	TR,KTC 3198-Y -RD
Q701	48E09088S01	TR,KTC 3198-Y -RD
Q702	48E09036S02	TR,KTA 1266-Y -RD
Q703	48E09088S01	TR,KTC 3198-Y -RD
Q704	48E09036S02	TR,KTA 1266-Y -RD
Q705	48E09088S01	TR,KTC 3198-Y -RD
Q706	48E09036S02	TR,KTA 1266-Y -RD
Q801	48E09036S02	TR,KTA 1266-Y -RD
Q802	48E10239S01	TR,KRA 104M -RD
Q803	48E09035S02	TR,KRC 104M -RD
Q804	48E09088S01	TR,KTC 3198-Y -RD
Q901	48E09036S02	TR,KTA 1266-Y -RD
Q902	48E25515S01	TR,DTC143ES -RD
Diodes		
D401	48E22916S01	DIO,1SS133-T-77 -AX
D402	48E22916S01	DIO,1SS133-T-77 -AX
D403	48E22916S01	DIO,1SS133-T-77 -AX
D404	48E22916S01	DIO,1SS133-T-77 -AX
D405	48E22916S01	DIO,1SS133-T-77 -AX
D406	48E22916S01	DIO,1SS133-T-77 -AX
D407	48E22916S01	DIO,1SS133-T-77 -AX
D408	48E22916S01	DIO,1SS133-T-77 -AX
D501	48T65059W01	DIO,REC F10P20F
D502	48T65059W02	DIO,REC F10P20FR
D701	48E22916S01	DIO,1SS133-T-77 -AX
D702	48E22916S01	DIO,1SS133-T-77 -AX
D801	48E23703S01	DIO,1N 4003 -AX
D802	48E22916S01	DIO,1SS133-T-77 -AX
D803	48E22916S01	DIO,1SS133-T-77 -AX
D804	48E22916S01	DIO,1SS133-T-77 -AX
D805	48E23703S01	DIO,1N 4003 -AX
D901	48E23703S01	DIO,1N 4003 -AX
ZD501	48E22436S01	DIO,ZEN,MTZJ16B -AX
ZD502	48E22436S01	DIO,ZEN,MTZJ16B -AX
ZD601	48E22162S01	DIO,ZEN,MTZJ9.1B-AX
ZD602	48E08332S01	DIO,ZEN,MTZJ22B -AX
ZD701	48E08332S01	DIO,ZEN,MTZJ22B -AX
ZD801	48E22917S01	DIO,ZEN,MTZJ6.8A-AX
Switches		
SW101	40E20895S01	S/W,SSAF123NA (INPUT CHANNEL)
SW201	40E20895S01	S/W,SSAF123NA (FILTER)
SW202	40E20895S01	S/W,SSAF123NA (FILTER)
SW301	40E20895S01	S/W,SSAF123NA (INPUT MODE)
SW302	40E20895S01	S/W,SSAF123NA (INPUT MODE)
Transformers		
T501	25E29380S01	ASS'Y POWER TRANS
T901	25E20891S01	CHOKE TRANS 35m/m
Coils		
L501	25E20892S01	CHOKE COIL(38uH)
L502	25E20892S01	CHOKE COIL(38uH)
Thermistors		
TH601	48E20887S01	TH,YTD5-320(20K)-YEL
TH701	48E20887S01	TH,YTD5-320(20K)-YEL
Photo Coupler		
PT601	48E25501S01	PS2501-1(L)
Capacitors		
C109	08E25511S01	CAP,CER,330-J-CP 50V
C110	21E06806S02	CAP,CER,330-J-SL -AX
C111	08E25511S01	CAP,CER,330-J-CP 50V
C112	08E23581S01	CAP,CER,330-J-CP 50V
C113	08E08423S03	CAP,CER,100-D-CP 50V
C114	08E08423S03	CAP,CER,100-D-CP 50V
C115	08E08423S03	CAP,CER,100-D-CP 50V
C116	08E08423S03	CAP,CER,100-D-CP 50V
C120	08E08423S03	CAP,CER,100-D-CP 50V
C121	08E08423S03	CAP,CER,100-D-CP 50V
C123	08E08423S03	CAP,CER,100-D-CP 50V
C124	08E08423S03	CAP,CER,100-D-CP 50V
C125	21E06806S02	CAP,CER,330-J-SL -AX
C126	21E06806S02	CAP,CER,330-J-SL -AX
C127	08E23581S01	CAP,CER,330-J-CP 50V
C128	08E23581S01	CAP,CER,330-J-CP 50V
C129	08E23581S01	CAP,CER,330-J-CP 50V
C130	21E06806S02	CAP,CER,330-J-SL -AX
C131	08E23581S01	CAP,CER,330-J-CP 50V
C132	08E23581S01	CAP,CER,330-J-CP 50V
C133	08E20072S01	CAP,CER,100-J-CH -AX

Symbol No.	Part No.	Description
Q506	48E05943S01	TR,KSA 1220A-Y
Q601	48E09088S01	TR,KTC 3198-Y -RD
Q701	48E09088S01	TR,KTC 3198-Y -RD
Q702	48E09036S02	TR,KTA 1266-Y -RD
Q703	48E09088S01	TR,KTC 3198-Y -RD
Q704	48E09036S02	TR,KTA 1266-Y -RD
Q705	48E09088S01	TR,KTC 3198-Y -RD
Q706	48E09036S02	TR,KTA 1266-Y -RD
Q801	48E09036S02	TR,KTA 1266-Y -RD
Q802	48E10239S01	TR,KRA 104M -RD
Q803	48E09035S02	TR,KRC 104M -RD
Q804	48E09088S01	TR,KTC 3198-Y -RD
Q901	48E09036S02	TR,KTA 1266-Y -RD
Q902	48E25515S01	TR,DTC143ES -RD
Diodes		
D401	48E22916S01	DIO,1SS133-T-77 -AX
D402	48E22916S01	DIO,1SS133-T-77 -AX
D403	48E22916S01	DIO,1SS133-T-77 -AX
D404	48E22916S01	DIO,1SS133-T-77 -AX
D405	48E22916S01	DIO,1SS133-T-77 -AX
D406	48E22916S01	DIO,1SS133-T-77 -AX
D407	48E22916S01	DIO,1SS133-T-77 -AX
D408	48E22916S01	DIO,1SS133-T-77 -AX
D501	48T65059W01	DIO,REC F10P20F
D502	48T65059W02	DIO,REC F10P20FR
D701	48E22916S01	DIO,1SS133-T-77 -AX
D702	48E22916S01	DIO,1SS133-T-77 -AX
D801	48E23703S01	DIO,1N 4003 -AX
D802	48E22916S01	DIO,1SS133-T-77 -AX
D803	48E22916S01	DIO,1SS133-T-77 -AX
D804	48E22916S01	DIO,1SS133-T-77 -AX
D805	48E23703S01	DIO,1N 4003 -AX
D901	48E23703S01	DIO,1N 4003 -AX
ZD501	48E22436S01	DIO,ZEN,MTZJ16B -AX
ZD502	48E22436S01	DIO,ZEN,MTZJ16B -AX
ZD601	48E22162S01	DIO,ZEN,MTZJ9.1B-AX
ZD602	48E08332S01	DIO,ZEN,MTZJ22B -AX
ZD701	48E08332S01	DIO,ZEN,MTZJ22B -AX
ZD801	48E22917S01	DIO,ZEN,MTZJ6.8A-AX
Switches		
SW101	40E20895S01	S/W,SSAF123NA (INPUT CHANNEL)
SW201	40E20895S01	S/W,SSAF123NA (FILTER)
SW202	40E20895S01	S/W,SSAF123NA (FILTER)
SW301	40E20895S01	S/W,SSAF123NA (INPUT MODE)
SW302	40E20895S01	S/W,SSAF123NA (INPUT MODE)
Transformers		
T501	25E29380S01	ASS'Y POWER TRANS
T901	25E20891S01	CHOKE TRANS 35m/m
Coils		
L501	25E20892S01	CHOKE COIL(38uH)
L502	25E20892S01	CHOKE COIL(38uH)
Thermistors		
TH601	48E20887S01	TH,YTD5-320(20K)-YEL
TH701	48E20887S01	TH,YTD5-320(20K)-YEL
Photo Coupler		
PT601	48E25501S01	PS2501-1(L)
Capacitors		
C109	08E25511S01	CAP,CER,330-J-CP 50V
C110	21E06806S02	CAP,CER,330-J-SL -AX
C111	08E25511S01	CAP,CER,330-J-CP 50V
C112	08E23581S01	CAP,CER,330-J-CP 50V
C113	08E08423S03	CAP,CER,100-D-CP 50V
C114	08E08423S03	CAP,CER,100-D-CP 50V
C115	08E08423S03	CAP,CER,100-D-CP 50V
C116	08E08423S03	CAP,CER,100-D-CP 50V
C120	08E08423S03	CAP,CER,100-D-CP 50V
C121	08E08423S03	CAP,CER,100-D-CP 50V
C123	08E08423S03	CAP,CER,100-D-CP 50V
C124	08E08423S03	CAP,CER,100-D-CP 50V
C125	21E06806S02	CAP,CER,330-J-SL -AX
C126	21E06806S02	CAP,CER,330-J-SL -AX
C127	08E23581S01	CAP,CER,330-J-CP 50V
C128	08E23581S01	CAP,CER,330-J-CP 50V
C129	08E23581S01	CAP,CER,330-J-CP 50V
C130	21E06806S02	CAP,CER,330-J-SL -AX
C131	08E23581S01	CAP,CER,330-J-CP 50V
C132	08E23581S01	CAP,CER,330-J-CP 50V
C133	08E20072S01	CAP,CER,100-J-CH -AX

Symbol No.	Part No.	Description
C134	08E08423S03	CAP,CER,100-D-CP 50V
C135	08E20072S01	CAP,CER,100-J-CH -AX
C136	08E20072S01	CAP,CER,100-J-CH -AX
C138	08E20072S01	CAP,CER,100-J-CH -AX
C139	08E08423S03	CAP,CER,100-D-CP 50V
C140	08E20072S01	CAP,CER,100-J-CH -AX
C141	08E23581S01	CAP,CER,330-J-CP 50V
C142	08E23581S01	CAP,CER,330-J-CP 50V
C143	08E29291S01	CAP,CER,221-J-CP 50V
C144	08E29291S01	CAP,CER,221-J-CP 50V
C145	08E08423S07	CAP,CER,221-J-CP 50V
C146	08E22081S01	CAP,CER,102-J-CP 50V
C147	08E22081S01	CAP,CER,102-J-CP 50V
C148	08E22081S01	CAP,CER,102-J-CP 50V
C149	08E10252S01	CAP,CER,102-J-CP 50V
C154	08E29291S01	CAP,CER,221-J-CP 50V
C174	08E08423S03	CAP,CER,100-D-CP 50V
C201	08E22899S01	CAP,CER,101-J-CP 50V
C202	08E20917S01	CAP,CER,101-K-B -AX
C203	08E22899S01	CAP,CER,101-J-CP 50V
C204	08E22899S01	CAP,CER,101-J-CP 50V
C205	08E08423S03	CAP,CER,100-D-CP 50V
C206	08E08423S03	CAP,CER,100-D-CP 50V
C207	08E08423S03	CAP,CER,100-D-CP 50V
C208	08E08423S03	CAP,CER,100-D-CP 50V
C209	08E07631S11	CAP,MYL,154-J -RD
C210	08E07631S11	CAP,MYL,154-J -RD
C211	08E07631S11	CAP,MYL,154-J -RD
C212	08E07631S11	CAP,MYL,154-J -RD
C213	08E07631S11	CAP,MYL,154-J -RD
C214	08E07631S11	CAP,MYL,154-J -RD
C215	08E07631S11	CAP,MYL,154-J -RD
C216	08E07631S11	CAP,MYL,154-J -RD
C301	08E08423S03	CAP,CER,100-D-CP 50V
C302	08E08423S03	CAP,CER,100-D-CP 50V
C303	08E08423S03	CAP,CER,100-D-CP 50V
C304	08E08423S03	CAP,CER,100-D-CP 50V
C401	08E20074S01	CAP,CER,271-K-B -AX
C402	08E20074S01	CAP,CER,271-K-B -AX
C403	08E20074S01	CAP,CER,271-K-B -AX
C404	08E20074S01	CAP,CER,271-K-B -AX
C405	08E22081S01	CAP,CER,102-J-CP 50V
C406	08E22081S01	CAP,CER,102-J-CP 50V
C407	08E10252S01	CAP,CER,102-J-CP 50V
C408	08E10252S01	CAP,CER,102-J-CP 50V
C409	08E29385S01	CAP,CER,470-J-CP 50V
C410	08E29385S01	CAP,CER,470-J-CP 50V
C411	08E29385S01	CAP,CER,470-J-CP 50V
C412	08E29385S01	CAP,CER,470-J-CP 50V

Symbol No.	Part No.	Description
C413	08E23745S01	CAP,CER,100-D-CP 50V
C414	08E23745S01	CAP,CER,100-D-CP 50V
C415	08E23745S01	CAP,CER,100-D-CP 50V
C416	08E20072S01	CAP,CER,100-J-CH -AX
C417	08E20216S01	CAP,MYL,103-J -RD
C418	08E20216S01	CAP,MYL,103-J -RD
C419	08E20216S01	CAP,MYL,103-J -RD
C420	08E20216S01	CAP,MYL,103-J -RD
C421	08E22549S01	CAP,CER,680-J-CP 50V
C422	08E22549S01	CAP,CER,680-J-CP 50V
C423	08E22549S01	CAP,CER,680-J-CP 50V
C424	08E29386S01	CAP,CER,680-J-CP 50V
C425	08E29386S01	CAP,CER,680-J-CP 50V
C426	08E29386S01	CAP,CER,680-J-CP 50V
C427	08E22549S01	CAP,CER,680-J-CP 50V
C428	08E29386S01	CAP,CER,680-J-CP 50V
C429	08E07631S18	CAP,MYL,473-K -RD
C430	08E07631S18	CAP,MYL,473-K -RD
C431	08E07631S18	CAP,MYL,473-K -RD
C432	08E07631S18	CAP,MYL,473-K -RD
C501	08E07631S10	CAP,MYL,223-J -RD
C502	08E07631S10	CAP,MYL,223-J -RD
C503	08E07631S18	CAP,MYL,473-K -RD
C504	08E07631S18	CAP,MYL,473-K -RD
C505	08E20913S01	CAP,MYL,563-J -RD
C506	08E20913S01	CAP,MYL,563-J -RD
C601	08E07631S08	CAP,MYL,104-J -RD
C602	08E07631S08	CAP,MYL,104-J -RD
C603	08E25318S01	CAP,TF,152-J -RD
C701	08E10252S01	CAP,CER,102-J-CP 50V
C901	08E07631S11	CAP,MYL,154-J -RD
C902	08E22081S01	CAP,CER,102-J-CP 50V
E105	23E08383S16	CAP,ELEC,4.7/50 -RD
E106	23E08383S16	CAP,ELEC,4.7/50 -RD
E107	23E08383S16	CAP,ELEC,4.7/50 -RD
E108	23E08383S16	CAP,ELEC,4.7/50 -RD
E110	23E22158S01	CAP,ELEC,10/50 -RD
E111	23E22158S01	CAP,ELEC,10/50 -RD
E112	23E22158S01	CAP,ELEC,10/50 -RD
E113	23E22158S01	CAP,ELEC,10/50 -RD
E114	23E22158S01	CAP,ELEC,10/50 -RD
E115	23E22158S01	CAP,ELEC,10/50 -RD
E116	23E22158S01	CAP,ELEC,10/50 -RD
E117	23E22158S01	CAP,ELEC,10/50 -RD
E118	23E08383S08	CAP,ELEC,10/16 -RD
E119	23E08383S08	CAP,ELEC,10/16 -RD
E301	23E08383S13	CAP,ELEC,22/16 -RD
E302	23E08383S13	CAP,ELEC,22/16 -RD
E303	23E08383S13	CAP,ELEC,22/16 -RD

Symbol No.	Part No.	Description
E304	23E08383S13	CAP,ELEC,22/16 -RD
E305	23E08383S16	CAP,ELEC,4.7/50 -RD
E306	23E08383S16	CAP,ELEC,4.7/50 -RD
E307	23E08383S16	CAP,ELEC,4.7/50 -RD
E308	23E08383S16	CAP,ELEC,4.7/50 -RD
E309	23E08383S13	CAP,ELEC,22/16 -RD
E310	23E08383S13	CAP,ELEC,22/16 -RD
E311	23E08383S13	CAP,ELEC,22/16 -RD
E312	23E08383S13	CAP,ELEC,22/16 -RD
E405	23E08383S10	CAP,ELEC,0.47/50 -RD
E406	23E08383S10	CAP,ELEC,0.47/50 -RD
E407	23E08383S10	CAP,ELEC,0.47/50 -RD
E408	23E08383S10	CAP,ELEC,0.47/50 -RD
E409	23E08383S10	CAP,ELEC,0.47/50 -RD
E410	23E08383S10	CAP,ELEC,0.47/50 -RD
E411	23E08383S10	CAP,ELEC,0.47/50 -RD
E412	23E08383S10	CAP,ELEC,0.47/50 -RD
E413	23E23848S01	CAP,ELEC,220/10 -RD
E414	23E23848S01	CAP,ELEC,220/10 -RD
E415	23E23848S01	CAP,ELEC,220/10 -RD
E416	23E23848S01	CAP,ELEC,220/10 -RD
E417	23E08383S12	CAP,ELEC,22/50 -RD
E418	23E08383S12	CAP,ELEC,22/50 -RD
E419	23E08383S12	CAP,ELEC,22/50 -RD
E420	23E08383S12	CAP,ELEC,22/50 -RD
E501	23T75491W14	CAP,PS 332-1C
E502	23T75491W14	CAP,PS 332-1C
E503	23E20911S01	CAP,ELEC,470/35 -RD
E504	23E20911S01	CAP,ELEC,470/35 -RD
E505	23T15345Y02	CAP,ALP 682 1V
E506	23T15345Y02	CAP,ALP 682 1V
E507	23E08383S12	CAP,ELEC,22/50 -RD
E508	23E08383S12	CAP,ELEC,22/50 -RD
E509	23E20210S01	CAP,ELEC,220/16 -RD
E510	23E20210S01	CAP,ELEC,220/16 -RD
E511	23E27783S01	CAP,ELEC,330/35 -RD
E512	23E27783S01	CAP,ELEC,330/35 -RD
E601	23E08383S08	CAP,ELEC,10/16 -RD
E602	23E08383S08	CAP,ELEC,10/16 -RD
E603	23E20849S01	CAP,ELEC,100/10 -RD
E604	23E10238S01	CAP,ELEC,100/16 -RD
E701	23E11142S01	CAP,ELE,100/10-BP-RD
E702	23E22905S01	CAP,ELEC,2.2/50 -RD
E703	23E20849S01	CAP,ELEC,100/10 -RD
E704	23E23848S01	CAP,ELEC,220/10 -RD
E801	23E08383S08	CAP,ELEC,10/16 -RD
E802	23E08383S08	CAP,ELEC,10/16 -RD
E803	23E08383S08	CAP,ELEC,10/16 -RD
E901	23E20908S01	CAP,ELEC,3.3/50 -RD

Symbol No.	Part No.	Description
Resistors		
R108	06E22058S01	RES,CF,123-J-1/10 -CP
R113	—	RES,CF,102-J-1/8 -AX
R114	—	RES,CF,102-J-1/8 -AX
R115	—	RES,CF,102-J-1/8 -AX
R116	—	RES,CF,102-J-1/8 -AX
R117	—	RES,CF,223-J-1/8 -AX
R118	—	RES,CF,223-J-1/8 -AX
R119	—	RES,CF,223-J-1/8 -AX
R120	—	RES,CF,223-J-1/8 -AX
R121	—	RES,CF,152-J-1/8 -AX
R122	—	RES,CF,152-J-1/8 -AX
R123	—	RES,CF,152-J-1/8 -AX
R124	—	RES,CF,152-J-1/8 -AX
R125	—	RES,CF,911-J-1/8 -AX
R126	—	RES,CF,911-J-1/8 -AX
R127	—	RES,CF,911-J-1/8 -AX
R128	—	RES,CF,911-J-1/8 -AX
R129	—	RES,CF,104-J-1/8 -AX
R130	—	RES,CF,104-J-1/8 -AX
R131	—	RES,CF,104-J-1/8 -AX
R132	—	RES,CF,104-J-1/8 -AX
R133	—	RES,CF,223-J-1/8 -AX
R134	—	RES,CF,223-J-1/8 -AX
R136	—	RES,CF,223-J-1/8 -AX
R137	—	RES,CF,223-J-1/8 -AX
R138	—	RES,CF,102-J-1/8 -AX
R139	—	RES,CF,102-J-1/8 -AX
R140	—	RES,CF,102-J-1/8 -AX
R141	—	RES,CF,102-J-1/8 -AX
R142	—	RES,CF,122-J-1/8 -AX
R143	—	RES,CF,122-J-1/8 -AX
R144	—	RES,CF,122-J-1/8 -AX
R145	—	RES,CF,122-J-1/8 -AX
R146	—	RES,CF,224-J-1/8 -AX
R147	—	RES,CF,224-J-1/8 -AX
R148	—	RES,CF,224-J-1/8 -AX
R149	—	RES,CF,224-J-1/8 -AX
R150	—	RES,CF,224-J-1/8 -AX
R151	—	RES,CF,224-J-1/8 -AX
R152	—	RES,CF,224-J-1/8 -AX
R153	—	RES,CF,224-J-1/8 -AX
R154	—	RES,CF,751-J-1/8 -AX
R155	—	RES,CF,751-J-1/8 -AX
R156	—	RES,CF,751-J-1/8 -AX
R157	—	RES,CF,751-J-1/8 -AX
R158	—	RES,CF,751-J-1/8 -AX
R159	—	RES,CF,751-J-1/8 -AX

Symbol No.	Part No.	Description
R160	——	RES,CF,751-J-1/8 -AX
R161	——	RES,CF,751-J-1/8 -AX
R162	——	RES,CF,15K-F-1/8 -AX
R163	——	RES,CF,15K-F-1/8 -AX
R164	——	RES,CF,15K-F-1/8 -AX
R165	——	RES,CF,15K-F-1/8 -AX
R166	——	RES,CF,15K-F-1/8 -AX
R167	——	RES,CF,15K-F-1/8 -AX
R168	——	RES,CF,15K-F-1/8 -AX
R169	——	RES,CF,15K-F-1/8 -AX
R170	——	RES,CF,15K-F-1/8 -AX
R171	——	RES,CF,15K-F-1/8 -AX
R172	——	RES,CF,15K-F-1/8 -AX
R173	——	RES,CF,15K-F-1/8 -AX
R174	——	RES,CF,15K-F-1/8 -AX
R175	——	RES,CF,15K-F-1/8 -AX
R176	——	RES,CF,15K-F-1/8 -AX
R177	——	RES,CF,15K-F-1/8 -AX
R178	——	RES,CF,223-J-1/8 -AX
R179	——	RES,CF,223-J-1/8 -AX
R180	——	RES,CF,101-J-1/8 -AX
R181	——	RES,CF,101-J-1/8 -AX
R182	——	RES,CF,273-J-1/8 -AX
R183	——	RES,CF,273-J-1/8 -AX
R184	——	RES,CF,751-J-1/8 -AX
R185	——	RES,CF,751-J-1/8 -AX
R186	——	RES,CF,105-J-1/8 -AX
R187	——	RES,CF,105-J-1/8 -AX
R188	——	RES,CF,103-J-1/8 -AX
R189	——	RES,CF,103-J-1/8 -AX
R190	——	RES,CF,103-J-1/8 -AX
R191	——	RES,CF,103-J-1/8 -AX
R192	06E22112S01	RES,CF,113-J-1/10 -CP
R193	06E22112S01	RES,CF,113-J-1/10 -CP
R194	06E23685S01	RES,CF,113-J-1/8 -CP
R195	06E23685S01	RES,CF,113-J-1/8 -CP
R196	06E22112S01	RES,CF,113-J-1/10 -CP
R197	06E22112S01	RES,CF,113-J-1/10 -CP
R198	06E22112S01	RES,CF,113-J-1/10 -CP
R199	06E23685S01	RES,CF,113-J-1/8 -CP
R201	06E22058S01	RES,CF,123-J-1/10 -CP
R202	06E22058S01	RES,CF,123-J-1/10 -CP
R203	06E22058S01	RES,CF,123-J-1/10 -CP
R204	06E22058S01	RES,CF,123-J-1/10 -CP
R205	06E22058S01	RES,CF,123-J-1/10 -CP
R206	06E23686S01	RES,CF,123-J-1/8 -CP
R207	06E22058S01	RES,CF,123-J-1/10 -CP
R209	——	RES,CF,123-J-1/8 -AX
R210	06E23686S01	RES,CF,123-J-1/8 -CP

Symbol No.	Part No.	Description
R211	06E22058S01	RES,CF,123-J-1/10 -CP
R212	06E22058S01	RES,CF,123-J-1/10 -CP
R213	06E23738S01	RES,CF,203-J-1/8 -CP
R214	06E23738S01	RES,CF,203-J-1/8 -CP
R215	06E22508S01	RES,CF,203-J-1/10 -CP
R216	06E22508S01	RES,CF,203-J-1/10 -CP
R217	——	RES,CF,752-J-1/8 -AX
R218	06E27736S01	RES,CF,752-J-1/8 -CP
R219	06E27736S01	RES,CF,752-J-1/8 -CP
R220	06E27736S01	RES,CF,752-J-1/8 -CP
R221	06E20903S01	RES,CF,103-J-1/10 -CP
R222	06E20903S01	RES,CF,103-J-1/10 -CP
R223	06E20903S01	RES,CF,103-J-1/10 -CP
R224	06E26014S01	RES,CF,103-J-1/8 -CP
R225	06E20903S01	RES,CF,103-J-1/10 -CP
R226	06E20903S01	RES,CF,103-J-1/10 -CP
R227	06E20903S01	RES,CF,103-J-1/10 -CP
R228	06E20903S01	RES,CF,103-J-1/10 -CP
R229	06E23594S01	RES,CF,273-J-1/8 -CP
R230	06E23594S01	RES,CF,273-J-1/8 -CP
R231	06E20904S01	RES,CF,273-J-1/10 -CP
R232	06E20904S01	RES,CF,273-J-1/10 -CP
R233	——	RES,CF,512-J-1/8 -AX
R234	06E29209S01	RES,CF,512-J-1/8 -CP
R235	06E29209S01	RES,CF,512-J-1/8 -CP
R236	06E29209S01	RES,CF,512-J-1/8 -CP
R237	06E22952S01	RES,CF,512-J-1/10 -CP
R238	06E22952S01	RES,CF,512-J-1/10 -CP
R239	06E22952S01	RES,CF,512-J-1/10 -CP
R240	06E29209S01	RES,CF,512-J-1/8 -CP
R296	06E22429S01	RES,WW,15-J-5W(PQR)
R297	06E22429S01	RES,WW,15-J-5W(PQR)
R298	06E22429S01	RES,WW,15-J-5W(PQR)
R299	06E22429S01	RES,WW,15-J-5W(PQR)
R301	06E22042S01	RES,CF,221-J-1/10 -CP
R302	06E22042S01	RES,CF,221-J-1/10 -CP
R303	06E22042S01	RES,CF,221-J-1/10 -CP
R304	06E22042S01	RES,CF,221-J-1/10 -CP
R305	——	RES,CF,103-J-1/8 -AX
R306	——	RES,CF,103-J-1/8 -AX
R307	——	RES,CF,103-J-1/8 -AX
R308	——	RES,CF,103-J-1/8 -AX
R309	06E22544S01	RES,CF,751-J-1/10 -CP
R310	06E20903S01	RES,CF,103-J-1/10 -CP
R311	06E22544S01	RES,CF,751-J-1/10 -CP
R312	06E20903S01	RES,CF,103-J-1/10 -CP
R313	06E20904S01	RES,CF,273-J-1/10 -CP
R314	06E23594S01	RES,CF,273-J-1/8 -CP
R315	06E20904S01	RES,CF,273-J-1/10 -CP

Symbol No.	Part No.	Description
R316	06E20904S01	RES,CF,273-J-1/10 -CP
R317	——	RES,CF,113-J-1/8 -AX
R318	——	RES,CF,113-J-1/8 -AX
R319	——	RES,CF,113-J-1/8 -AX
R320	——	RES,CF,113-J-1/8 -AX
R321	——	RES,CF,202-J-1/8 -AX
R322	——	RES,CF,202-J-1/8 -AX
R323	——	RES,CF,202-J-1/8 -AX
R324	——	RES,CF,202-J-1/8 -AX
R401	——	RES,CF,102-J-1/8 -AX
R402	——	RES,CF,102-J-1/8 -AX
R403	——	RES,CF,102-J-1/8 -AX
R404	——	RES,CF,102-J-1/8 -AX
R405	06E21162S01	RES,CF,562-J-1/8 -CP
R406	06E21162S01	RES,CF,562-J-1/8 -CP
R407	——	RES,CF,562-J-1/8 -AX
R408	06E21162S01	RES,CF,562-J-1/8 -CP
R409	——	RES,CF,563-J-1/8 -AX
R410	——	RES,CF,563-J-1/8 -AX
R411	——	RES,CF,563-J-1/8 -AX
R412	——	RES,CF,563-J-1/8 -AX
R413	——	RES,CF,121-J-1/8 -AX
R414	——	RES,CF,121-J-1/8 -AX
R415	——	RES,CF,121-J-1/8 -AX
R416	——	RES,CF,121-J-1/8 -AX
R417	——	RES,CF,121-J-1/8 -AX
R418	——	RES,CF,121-J-1/8 -AX
R419	——	RES,CF,121-J-1/8 -AX
R420	——	RES,CF,121-J-1/8 -AX
R421	——	RES,CF,471-J-1/8 -AX
R422	——	RES,CF,471-J-1/8 -AX
R423	——	RES,CF,471-J-1/8 -AX
R424	——	RES,CF,471-J-1/8 -AX
R425	——	RES,CF,221-J-1/8 -AX
R426	——	RES,CF,221-J-1/8 -AX
R427	——	RES,CF,221-J-1/8 -AX
R428	——	RES,CF,221-J-1/8 -AX
R429	——	RES,CF,331-J-1/8 -AX
R430	——	RES,CF,331-J-1/8 -AX
R431	——	RES,CF,331-J-1/8 -AX
R432	——	RES,CF,331-J-1/8 -AX
R433	——	RES,CF,33R-J-1/8 -AX
R434	——	RES,CF,33R-J-1/8 -AX
R435	——	RES,CF,33R-J-1/8 -AX
R436	——	RES,CF,33R-J-1/8 -AX
R437	——	RES,CF,121-J-1/8 -AX
R438	——	RES,CF,121-J-1/8 -AX
R439	——	RES,CF,121-J-1/8 -AX
R440	——	RES,CF,121-J-1/8 -AX

Symbol No.	Part No.	Description
R441	——	RES,CF,222-J-1/8 -AX
R442	——	RES,CF,222-J-1/8 -AX
R443	——	RES,CF,222-J-1/8 -AX
R444	——	RES,CF,222-J-1/8 -AX
R445	——	RES,CF,562-J-1/8 -AX
R446	——	RES,CF,562-J-1/8 -AX
R447	——	RES,CF,562-J-1/8 -AX
R448	——	RES,CF,562-J-1/8 -AX
R449	——	RES,CF,513-J-1/8 -AX
R450	——	RES,CF,513-J-1/8 -AX
R451	——	RES,CF,513-J-1/8 -AX
R452	——	RES,CF,513-J-1/8 -AX
R453	——	RES,CF,243-J-1/8 -AX
R454	——	RES,CF,243-J-1/8 -AX
R455	——	RES,CF,243-J-1/8 -AX
R456	——	RES,CF,243-J-1/8 -AX
R457	——	RES,CF,562-J-1/8 -AX
R458	——	RES,CF,562-J-1/8 -AX
R459	——	RES,CF,562-J-1/8 -AX
R460	——	RES,CF,562-J-1/8 -AX
R461	——	RES,CF,242-J-1/8 -AX
R462	——	RES,CF,242-J-1/8 -AX
R463	——	RES,CF,242-J-1/8 -AX
R464	——	RES,CF,242-J-1/8 -AX
R465	06E22071S01	RES,CF,10R-J-1/4 -CP
R466	06E22071S01	RES,CF,10R-J-1/4 -CP
R467	06E22071S01	RES,CF,10R-J-1/4 -CP
R468	06E22071S01	RES,CF,10R-J-1/4 -CP
R469	——	RES,CF,10R-J-1/4 -AX
R470	06E22071S01	RES,CF,10R-J-1/4 -CP
R471	06E22071S01	RES,CF,10R-J-1/4 -CP
R472	06E22071S01	RES,CF,10R-J-1/4 -CP
R473	06E20752S01	RES,CF,221-J-1/4 -CP
R474	06E20752S01	RES,CF,221-J-1/4 -CP
R475	06E20752S01	RES,CF,221-J-1/4 -CP
R476	06E20752S01	RES,CF,221-J-1/4 -CP
R477	——	RES,CF,102-J-1/8 -AX
R478	06E22030S01	RES,CF,102-J-1/8 -CP
R479	06E22030S01	RES,CF,102-J-1/8 -CP
R480	06E22030S01	RES,CF,102-J-1/8 -CP
R481	06E22046S01	RES,CF,681-J-1/10 -CP
R482	06E22046S01	RES,CF,681-J-1/10 -CP
R483	06E22046S01	RES,CF,681-J-1/10 -CP
R484	06E24185S01	RES,CF,681-J-1/8 -CP
R485	06E22136S01	RES,MPR 5W 0.1X2
R486	06E22136S01	RES,MPR 5W 0.1X2
R487	06E22136S01	RES,MPR 5W 0.1X2
R488	06E22136S01	RES,MPR 5W 0.1X2
R489	06E22058S01	RES,CF,123-J-1/10 -CP

Symbol No.	Part No.	Description
R490	06E22058S01	RES,CF,123-J-1/10 -CP
R491	06E22058S01	RES,CF,123-J-1/10 -CP
R492	06E22058S01	RES,CF,123-J-1/10 -CP
R493	06E20907S01	RES,MO,1W 100E -RD
R494	06E20907S01	RES,MO,1W 100E -RD
R495	06E20907S01	RES,MO,1W 100E -RD
R496	06E20907S01	RES,MO,1W 100E -RD
R501	06E22146S01	RES,MO,1W 111E -RD
R502	06E22146S01	RES,MO,1W 111E -RD
R503	——	RES,CF,10R-J-1/4 -AX
R504	——	RES,CF,10R-J-1/4 -AX
R505	——	RES,CF,10R-J-1/4 -AX
R506	——	RES,CF,10R-J-1/4 -AX
R507	06E20907S01	RES,MO,1W 100E -RD
R508	06E20907S01	RES,MO,1W 100E -RD
R509	——	RES,CF,272-J-1/4 -AX
R510	——	RES,CF,272-J-1/4 -AX
R601	06E20903S01	RES,CF,103-J-1/10 -CP
R602	06E22055S01	RES,CF,472-J-1/10 -CP
R603	06E23857S01	RES,CF,511-J-1/10 -CP
R604	——	RES,CF,822-J-1/4 -AX
R605	06E22112S01	RES,CF,113-J-1/10 -CP
R606	06E22968S01	RES,CF,242-J-1/8 -CP
R607	06E22065S01	RES,CF,104-J-1/10 -CP
R608	06E25508S01	RES,CF,623-J-1/8 -CP
R609	06E26014S01	RES,CF,103-J-1/8 -CP
R610	06E22035S01	RES,CF,183-J-1/8 -CP
R611	06E25506S01	RES,CF,10R-J-1/8 -CP
R701	06E22030S01	RES,CF,102-J-1/8 -CP
R702	06E22030S01	RES,CF,102-J-1/8 -CP
R703	06E22030S01	RES,CF,102-J-1/8 -CP
R704	06E22053S01	RES,CF,332-J-1/10 -CP
R705	06E22030S01	RES,CF,102-J-1/8 -CP
R706	06E22037S01	RES,CF,104-J-1/8 -CP
R707	06E23738S01	RES,CF,203-J-1/8 -CP
R708	06E22111S01	RES,CF,562-J-1/10 -CP
R709	06E22508S01	RES,CF,203-J-1/10 -CP
R710	06E22036S01	RES,CF,223-J-1/8 -CP
R711	06E25421S01	RES,CF,151-J-1/8 -CP
R712	06E26014S01	RES,CF,103-J-1/8 -CP
R713	06E20903S01	RES,CF,103-J-1/10 -CP
R714	06E23743S01	RES,CF,244-J-1/10 -CP
R715	06E22036S01	RES,CF,223-J-1/8 -CP
R716	06E23692S01	RES,CF,514-J-1/10 -CP
R717	06E26014S01	RES,CF,103-J-1/8 -CP
R718	06E26014S01	RES,CF,103-J-1/8 -CP
R719	——	RES,CF,103-J-1/8 -AX
R720	06E26014S01	RES,CF,103-J-1/8 -CP
R801	06E22058S01	RES,CF,123-J-1/10 -CP

Symbol No.	Part No.	Description
R802	06E22037S01	RES,CF,104-J-1/8 -CP
R803	06E22055S01	RES,CF,472-J-1/10 -CP
R804	06E22065S01	RES,CF,104-J-1/10 -CP
R805	06E23737S01	RES,CF,202-J-1/8 -CP
R806	06E22037S01	RES,CF,104-J-1/8 -CP
R807	06E23737S01	RES,CF,202-J-1/8 -CP
R808	06E22068S01	RES,CF,105-J-1/10 -CP
R809	06E23824S01	RES,CF,684-J-1/8 -CP
R812	——	RES,CF,473-J-1/8 -AX
R813	——	RES,CF,104-J-1/8 -AX
R814	——	RES,CF,473-J-1/8 -AX
R901	06E26014S01	RES,CF,103-J-1/8 -CP
R902	06E22506S01	RES,CF,362-J-1/10 -CP
R903	06E22509S01	RES,CF,154-J-1/10 -CP
R904	06E24140S01	RES,CF,332-J-1/8 -CP
R905	06E22127S01	RES,CF,272-J-1/8 -CP
R906	06E23689S01	RES,CF,7R5-J-1/10 -CP
R907	——	RES,CF,102-J-1/4 -AX
VR101	18E20880S01	VR,50KAX2 RK0971210 (GAIN)
VR102	18E20880S01	VR,50KAX2 RK0971210 (GAIN)
VR201	18E20879S01	VR,20KEX4 RK0971410 (CROSSOVER)
VR202	18E20879S01	VR,20KEX4 RK0971410 (CROSSOVER)
VR601	18E20754S01	VR,EVNDJAA03 B10K-RD

Connectors

CB101	09E27780S01	CONN BASE,GIL-S-02P
CH101	01E29383S01	ASS'Y CON 10P-6P-5P
CH103	01E29384S01	ASS'Y CON 3P-3P

LED P.W.Board

LED

LD901	48E29328S01	LED,SG3511 (GRN)

Capacitor

C903	08E22510S01	CAP,CER,181-J-CP 50V

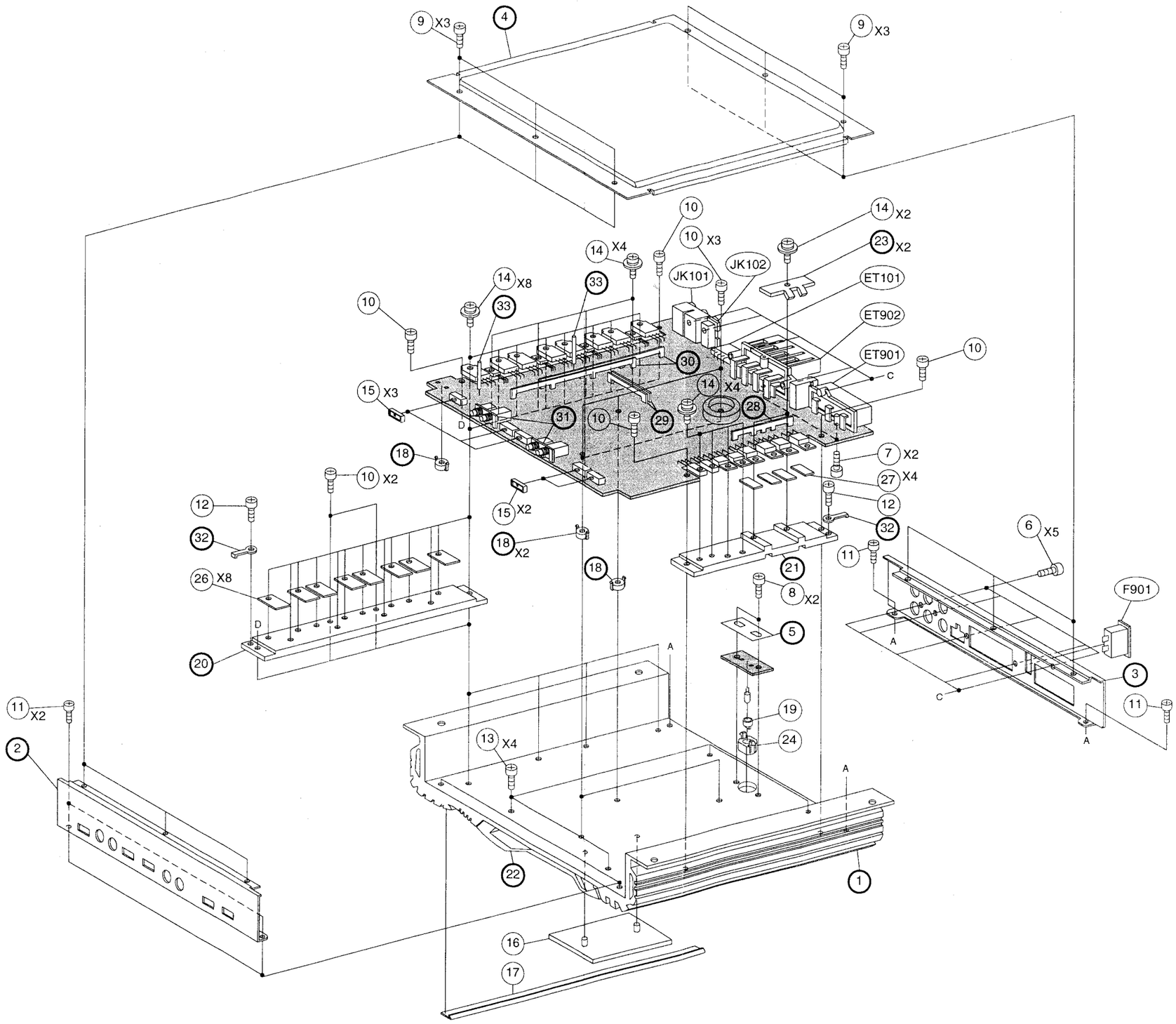
Symbol No.	Part No.	Description
Connector		
CH102	01E27750S01	2P CONNECTOR ASS'Y
Miscellaneous		
ET101	01E29382S01	SPEAKER LEVEL INPUT Connector
ET901	29T15245Y01	POWER SUPPLY Terminal
ET902	09E29255S01	SPEAKER OUTPUT Terminal
F901	65E25308S01	Fuse, Auto 30A (For Battery Line)
JK101	09E25594S01	Jack, RCA INPUT
JK102	09T15354Y02	Jack, RCA PREOUT

Symbol No.	Part No.	Description

MEMO

MRV-F303 MRV-F303

Exploded View (Cabinet)



Cabinet Assembly Parts List

NOTE:Parts without part number are not supplied.

Symbol No.	Index	Part No.	Description
6	3-F	03E09416S09	Screw, TPG-TPT (M3X10)
7	3-E	03E09416S10	Screw, TPG-TPT (M3X8)
8	3-E	03E24424S01	Screw, TPG-TPT (M2.6X5)
9		03E09417S05	Screw, MCH-TPT (M2.6X5)
10		03E09417S06	Screw, TPG-TPT (M3X11)
11		03E09417S08	Screw, TPG-TPT (M3X5)
12		03E20920S01	Screw, TPG-TPT (M3X5)
13	4-D	03E29348S01	Screw, TPG-TPT (M3X8)
14		03E20922S01	Screw, TPG-TPT (M3X11)
15		15E11445S01	Cover, Switch
16	5-D	64E29423S01	Badge, V12 (STRAIGHT)
17	5-D	15E29388S01	Cover, Plate
19	4-E	61E29351S01	Lens, LED
24	4-E	15E29379S01	Holder, LED
26	3-B	14E11487S01	Insulator, Sheet-B
27	3-F	14E20977S01	Insulator, Sheet-A

Symbol No.	Index	Part No.	Description